

Particles at Interfaces

Interactions, Deposition, Structure

Zbigniew Adamczyk



Particles At Interfaces Interactions Deposition Structure Interface Science And Technology

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Particles at Interfaces Zbigniew Adamczyk, 2006-12-09 *Particles at Interfaces* presents recent developments in this growing field and is devoted entirely to the subject of particle transport deposition and structuring on boundary surfaces. The complex problems which have been studied include concentrated systems of polydisperse and non-spherical particles, bio-particles such as DNA fragments, proteins, viruses, bacteria, cells, polymers, etc. These complex structures undergo transformations under the action of surface forces. *Particles at Interfaces* provides readily accessible reference data and equations for estimating basic effects and is mainly addressed to students and young scientists. Consequently, most approaches are of a phenomenological nature, enabling one to derive concrete expressions which describe the basic physics of the problem under consideration. To facilitate access to the information contained in the book, most of the relevant formulae and results are compiled in Tables accompanied with appropriate diagrams. The math is limited to the necessary minimum, with emphasis on the physics of the phenomena, defining why they occur, what the kinetics of the processes are, and the practical implications. Fill a substantial gap in the subject of particle transport deposition and structuring on boundary surfaces. Combines traditional theories of electrostatics, hydrodynamics, and transport with new approaches. Provides readily accessible reference data and equations for estimating basic effects. **Particles at Interfaces** Zbigniew

Adamczyk, 2017-10-27 *Particles and Interfaces Interaction Deposition Structure* Volume 20, Second Edition unifies particle and protein adsorption phenomena by presenting recent developments in this growing field of nanoscience. While experimental data is available in vast quantities, there is a deficit in quality interpretation of that data. This title provides such information, emphasizing the basic physics behind practical problems, thus empowering the reader to estimate relevant effects. The book includes solved problems of particle transport under non-linear conditions and their relevance to predicting protein adsorption, including an entirely new chapter devoted to polyelectrolyte and protein adsorption at solid-liquid and solid-gas interfaces. Unifies information from various fields such as electrostatics, hydrodynamic, colloid science, and biophysics. Presents information in a user-friendly manner, including computer-aided graphics and schematic drawings. Applies a phenomenological approach to the content and provides readily accessible reference data. *Zeta Potential* Andrei S. Dukhin, Renliang Xu, 2025-05-23 *Zeta Potential Fundamentals: Methods and Applications* provides an up-to-date exploration of the principles and practice of zeta potential measurements. Tailored for an interdisciplinary audience, the book is invaluable for researchers, engineers, and students in fields like materials science, chemistry, and nanotechnology. It delves into the role of zeta potential in complex heterogeneous liquids such as dispersions and emulsions and its significance in biomedical and industrial applications. By offering comprehensive yet accessible coverage, this book aims to bridge the educational gap and enhance understanding of this essential electric double layer characteristic. In addition to covering fundamental principles, the book emphasizes modern measurement methods, including electrophoresis, electroacoustics, and streaming current. It

highlights the switch towards using zeta potential in formulation and quality control providing a thorough review of published research This allows readers to find data relevant to their projects The book is a crucial resource for those who wish to navigate the complexities of zeta potential applications ensuring precise and reliable results in their work Explains the fundamentals of the zeta potential concept and provides formulae based on well verified and widely accepted theoretical models for interfacial double layer and electrokinetic phenomena Introduces common technologies for characterizing zeta potential including the most widely used contemporary measuring methods and interpretation procedures for converting raw measured data into zeta potential Provides useful examples of applications for a wide variety of R D and industrial fields

Advanced Low-Cost Separation Techniques in Interface Science George Z. Kyzas, Athanasios C. Mitropoulos, 2019-08-24
Advanced Low Cost Separation Techniques in Interface Science Volume 30 helps scientists and researchers in academia and industry gain expert knowledge on how to use separation techniques at minimal cost and energy usage It handles a broad range of highly relevant topics including modern flotation techniques low cost materials in liquid and gas phase adsorption new trends in molecular imprinting graphenes in separation nanobubbles and biopolymers in interface science the reuse of biomaterials green techniques for wastewaters and modeling in environmental interfaces The book shows that these techniques can be both attractive for both research and industrial purposes It is intended for chemical engineers working in wastewater treatment industries membrane industries pharmaceutical industries textile or tanneries industries hybrid topic industries and energy industries Focuses on cost and energy saving separation techniques in interface science Discusses multiple techniques including flotation adsorption materials synthesis and more Combines in a single source separation techniques advanced methodologies and the low cost potential of the techniques Describes techniques that are attractive for both research and industrial purposes

Macromolecules in Solution and Brownian Relativity Stefano Mezzasalma, 2008-07-22
Macromolecules in Solution and Brownian Relativity illustrates the recent picture of statistical physics of polymers and polymer solutions that emerges from some paradigms of contemporary science joint together Among its principal aims are discussing the consequences of a novel self diffusion theory which benefits from an extension towards relativistic like principles and the generalization of usual concepts met in polymer science in terms of geometry alone The monograph gives the whole fundamentals necessary to handle the view proposed which is set in the final chapters All the formers see about to provide the reader with a comprehensive treatatation of the necessary fundamentals of classical relativistic quantum and statistical mechanics Among the most important mechanical theories ever developed a chapter on the Brownian movement and another on macromolecules prepare the ground that is specific to face universality and scaling behaviors in polymer solutions The scope of the book is therefore two fold On the one hand it wishes to involve the readers and scholars into a new research on polymer physics and chemistry On the other to get close chemical physicists and physical chemists to disciplines which traditionally are far from their direct fields of interest Cross disciplinarity Novelty

Potentiality **Adsorption: Fundamental Processes and Applications** Mehrorang Ghaedi, 2021-03-19 Adsorption Fundamental Processes and Applications Volume 33 in the Interface Science and Technology Series discusses the great technological importance of adsorption and describes how adsorbents are used on a large scale as desiccants catalysts catalyst supports in the separation of gases the purification of liquids pollution control and in respiratory protection Finally it explores how adsorption phenomena play a vital role in many solid state reactions and biological mechanisms as well as stressing the importance of the widespread use of adsorption techniques in the characterization of surface properties and the texture of fine powders Covers the fundamental aspects of adsorption process engineering Reviews the environmental impact of key aquatic pollutants Discusses and analyzes the importance of adsorption processes for water treatment Highlights opportunity areas for adsorption process intensification Edited by a world leading researcher in interface science

Chemistry on Modified Oxide and Phosphate Surfaces: Fundamentals and Applications Robson Fernandes de Farias, 2009-03-25 This title in the authoritative Interface Science and Technology Series presents the key features and applications of modified oxide and phosphate surfaces Examines both basic and applied aspects Incorporates examples from recent publications Rheology of Emulsions Aleksandar M. M. Spasic, 2018-04-26 Rheology of Emulsions Volume 22 Electrohydrodynamics Principles studies phenomena at liquid liquid interfaces including finely dispersed particles or structures in particular emulsions double emulsions and biological cells The book considers the forces of electrical origin that participate in the physical events at liquid liquid interfaces taking into account electron transfer phenomenon and electrodynamics principles Topics covered are of interest to a broad range of scientists researchers and graduate students with a basic knowledge of physical chemistry electromagnetism fluid mechanics classical and quantum electrodynamics The implications and applications of the material presented in the book contribute to the advanced fundamental applied and engineering research of interfacial electroviscoelastic phenomena Features a multidisciplinary approach to electron transfer phenomena Introduces a new constitutive model of liquids and a theory of electroviscoelasticity Addresses a broad range of subject field examples that make it useful to various research communities *An Introduction to Green Nanotechnology* Mahmoud Nasrollahzadeh, Mohammad S. Sajadi, Monireh Atarod, Mohaddeseh Sajjadi, Zahra Isaabadi, 2019-02-19 An Introduction to Green Nanotechnology Volume 28 provides students scientists and chemical engineers with an overview of several types of nanostructures discusses the synthesis and characterization of nanostructures and provides applications of nanotechnology in daily life The book offers a foundation to green nanotechnology by explaining why green nanotechnology is important Covers biological sources in green nanotechnology antioxidants green nanostructures mechanism synthesis and characterization The book ends with an evaluation of the risks of nanotechnology in human life and future perspectives Introduces novel sources of plants having a high potential to be used as bio media to synthesize nanostructures Provides phytochemical properties and antioxidant potential and their effects on stability morphology and size of green nanostructures

Includes a medicinal and technological comparison of green synthesized nanostructures to nano products from non green methods Uses accessible language avoiding complex concepts of mathematics biology and chemistry *Photocatalysis: Fundamental Processes and Applications* Mehrorang Ghaedi, 2021-03-19 Photocatalysis Fundamental Processes and Applications Volume 32 in the Interface Science and Technology Series discusses the fundamental aspects of photocatalysis and its process and applications to the decontamination of wastewater hydrogen production via water splitting and photo reduction of carbon dioxide to hydrocarbon The book discusses the fundamental aspects of all applications together with their proper mechanisms thus providing essential information for deep research in the area of clean environment and green energy production Provides background on the fundamental and experimental processes of photocatalysis Covers photocatalysis and its impact on creating a clean environment and energy sources Applies photocatalysis to the decontamination of wastewater hydrogen production via water splitting and photo reduction of carbon dioxide to hydrocarbon Edited by a world leading researcher in interface science **Charge and Energy Storage in Electrical Double Layers** Silvia Ahualli, Angel V. Delgado, 2018-11-28 Charge and Energy Storage in Electrical Double Layers presents the basic scientific concepts and implementation of procedures devised to obtain capacitive energy from changes in the potential of electrical double layers when the salinity of solutions is changed Capacitive deionization the closely connected reciprocal process is also considered The book covers the fundamentals of electrical double layers and ions transport in porous media the description of promising techniques of energy extraction and the practical problems involved in each It is written for scientists in academia and industry and for graduate students working in supercapacitors capacitive mixing and deionization Provides a didactic presentation of the fundamentals of interface science involved in charge and energy storage processes Presents a pioneering overview of the application of the properties of solid solution interfaces to desalination and energy extraction Edited by leading specialists with vast experience in the theory and experimental characterization of charged interfaces **Stimuli Responsive Polymeric Membranes** Mihir Kumar Purkait, Manish Kumar Sinha, Piyal Mondal, Randeep Singh, 2018-09-11 Stimuli Responsive Polymeric Membranes Smart Polymeric Membranes explains the fundamentals and advances in topics relating to the field of membrane science It elaborately explains concepts relating to stimuli responsive membranes with special importance given down to minute details Material selection preparation characterization and applications of various stimuli responsive membranes are extensively addressed and their relevance including examples is included The book covers history and development merits and demerits mechanisms of transport and fouling applicability of membranes to various diverse areas and preparation and characterization techniques of membranes Next the concept of fouling and its remedial actions is discussed Finally promising fields of research in the membrane science and future perspectives of membrane science field are explored Provides basic and advanced knowledge of smart membranes considering their morphological physicochemical and separation characteristics Written in a clear and lucid style

keeping a diverse audience in mind Based on the state of art research of the authors **Tailored Thin Coatings for Corrosion Inhibition Using a Molecular Approach** Simo Olavi Pehkonen, Shaojun Yuan, 2018-08-25 Tailored Thin Coatings for Corrosion Inhibition Using a Molecular Approach discusses the fundamentals and applications of various thin coatings for the inhibition of fouling and corrosion from a molecular perspective It provides the reader with a fundamental understanding of why certain coatings perform better than others in a given environment Surface analytical and electrochemical techniques in understanding the coating performance are emphasized throughout the book providing readers with a useful reference on how to pursue a systematic corrosion inhibitor R D program that involves the testing of coating performance using various currently available state of the art laboratory techniques Wherever relevant environmental considerations of the discussed coatings technologies are highlighted and discussed with current and upcoming regulatory trends put forth by different governmental organizations Provides atomic and molecular level understanding of tailored thin coatings for corrosion inhibition Discusses key steps in corrosion including the attachment of harmful substances to surfaces the fouling of surfaces and the initiation and propagation of corrosion on surfaces Written by leading experts in the field Emerging Natural and Tailored Nanomaterials for Radioactive Waste Treatment and Environmental Remediation Changlun Chen, 2019-04-25 Emerging Natural and Tailored Nanomaterials for Radioactive Waste Treatment and Environmental Remediation Principles and Methodologies Volume 29 provides an overview of the most important radionuclide sources in the environment their interaction with environmental media and appropriate remediation techniques The book focuses on the assessment of radionuclide sorption behavior in contaminated sites and the synthesis of new materials for radionuclides remediation through sorption concepts Chapters investigate the main interaction mechanisms between toxic radioactive metal ions with natural and manmade materials natural clay minerals and oxides and novel nanomaterials such as ordered mesoporous silicas carbon nanotubes graphene and metal organic framework based materials Techniques and models discussed include kinetics analysis thermodynamic analysis surface complexation models spectroscopic techniques and theoretical calculations Provides a systemic discussion on the interactions between toxic and radioactive metal ions and natural and manmade materials Helps to select the best approach to remove toxic radioactive metal ions from a surface Edited by a scientific authority in toxic radioactive metal ion interactions Current Awareness in Particle Technology ,1995 *American Book Publishing Record* ,2006 **Environmental Nanotechnology, Applications and Impacts of Nanomaterials, Second Edition** Mark Wiesner, Jean-Yves Bottero, 2016-10-14 Extensively revised and featuring new material this timely advanced resource covers the impacts of nanomaterials on organisms and ecosystems and their applications within industry Cowritten by leaders of two of the most prominent research groups in the world considering the effects of nanomaterials on the environment the second edition of Environmental Nanotechnology addresses the cutting edge advances in this area There is now much more known about the impacts of nanomaterials on organisms and

ecosystems Methods have been developed where there were few accepted procedures in the past Thinking has evolved to consider the life cycle effects of nanomaterial production and tools for risk forecasting are now under development There has also been some experience among academics in using this book as the basis for new courses on Environmental Nanotechnology Three new chapters cover the life cycle of nanomaterial fabrication and use and estimating nanomaterial exposure in the environment A systematic discussion of the effects of nanomaterials on organisms and ecosystems is included where the previous edition was largely limited to speculation Features 75% new material New chapter on the life cycle aspects of nanomaterial fabrication and use Two new chapters on estimating nanomaterial exposure in the environment implications that explore nanotoxicology exposure estimation Contains end of chapter problems and questions

Theoretical Chemical Engineering Abstracts ,1980 **Environmental Surfaces and Interfaces from the Nanoscale to the Global Scale** Patricia Maurice,2009-06-15 Based on the author s fifteen years of teaching and tried and tested experiences in the classroom here is a comprehensive exploration of water rock interactions Environmental Surfaces and Interfaces from the Nanoscale to the Global Scale covers aspects ranging from the theory of charged particle surfaces to how minerals grow and dissolve to new frontiers in W R interactions such as nanoparticles geomicrobiology and climate change pub desc *Encyclopedia of Hydrological Sciences* M. G. Anderson,2005

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